

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Work Order ID 131841

131841

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Tuesday, April 21, 2015 2:06:52 PM

Item ID: D2894-1 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: 2.75 Support
 Start Date: 4/20/15 Start Qty: 5.00 *5* Cust Item ID:
 Required Date: 4/20/15 Req'd Qty: 5.00 *5* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <u>LG52</u>	0.00							DAS
130									41
Packaging	Memo	0.00				6			9-89
Packaging									15-5-7
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.01							
Quality Control									

MLJ MAY 07 2015

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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Page 1

Tuesday, April 21, 2015 2:06:51 PM

Work Order ID: 131841

131841

Parent Item: D2894-1

D2894-1

Parent Item Name: 2.75 Support

Start Date: 4/20/15

Required Date: 4/20/15

Start Qty: 5.00

Required Qty: 5.00

Comments:

IPP: B02.11.26Added mask holeKJ

IPP Rev:C ECN 993 07-11-07 DD verified by:EC

IPP D 08.03.19 Re-format EC verified by DD IPP REV:E

11.10.03 ASPER REV.C DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
DSK079		Manufactured	No			100	Each	8.0000	0.5	3			

DSK079******

D2894-1 Turning Detail

LocationLoc QtyLoc Code

MAT060

8

114871

1

126547

6

94328

1

} JH 2015-05-04

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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

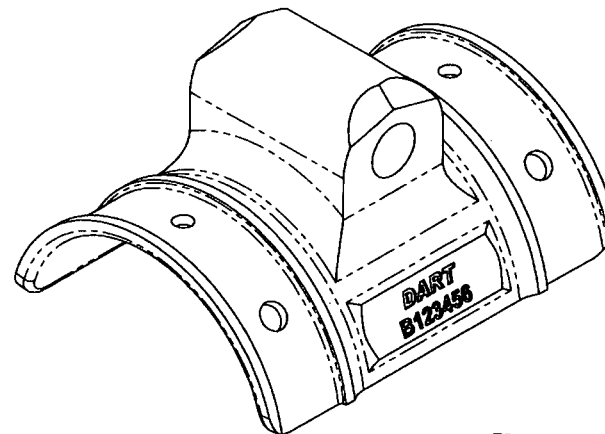
DART AEROSPACE LTD		Work Order:	131841
Description: Ø2.750 Support		Part Number:	D2894-1
Inspection Dwg: D2894	Rev: E	Page 1 of 1	

FIRST ARTICLE INSPECTION DIMENSION SHEET

				Record Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	5	6
HAAS Section									
AA	0.454	0.474		.463	.463	.463	.459	.465	.465
AB	3.062	3.082		3.073	3.072	3.072	3.072	3.072	3.072
AC	0.053	0.073		.063	.063	.063	.063	.063	.063
AD	1.766	1.786		1.776	1.776	1.777	1.777	1.776	1.776
AE	0.020	0.040		.030	.030	.030	.030	.030	.030
AF	0.260	0.267		.260	.260	.260	.260	.260	.260
AG	0.170	0.190		.180	.180	.190	.186	.187	.188
AH	0.150	0.170		.157	.160	.160	.160	.162	.168
AI	1.970	2.030		2.002	1.999	1.999	2.005	1.997	1.992
AJ	0.240	0.260		.250	.250	.250	.250	.250	.250
AK	1.880	1.900		1.897	1.897	1.898	1.898	1.898	1.898
AL	0.500	0.505		.501	.501	.501	.501	.501	.501
AM	0.188	0.194		.189	.189	.189	.189	.189	.189
Ensure that Ø0.500" bore is perpendicular to 1.389" bore within 0.003"									
Accept/Reject				.0005	.002	.003	.003	.002	.002

Measured by:	15-05-06	Date:	
Audited by:	DAS	Date:	15/05/07
	08		
	9-89		
Preliminary Approval:		Date:	

Rev	Date	Change	Revised by	Approved
A	02.12.12	New Issue	KJ/RF	
B	06.03.08	DT8708 added to dimension AM	KJ/JLM	
C	06.11.22	Note added to HAAS section	KJ/JLM	
D	08.04.22	Reformat; Dwg Rev updated	KJ/DD	
E	08.11.25	Dimensions updated per Dwg Rev: D	KJ/JLM	
F	09.05.04	Dimension AN (0.926) removed	KJ/JLM	
G	13.05.22	Dimensions updated per Dwg Rev: E	KJ	



D2894-1 Ø2.750 SUPPORT

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
DATE: 11-09-07
BY: JNT

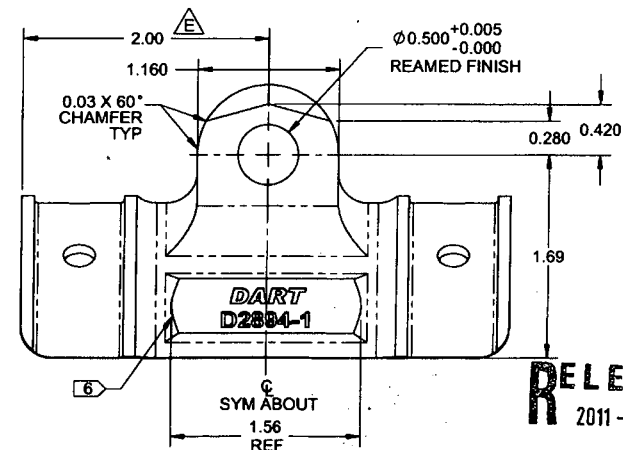
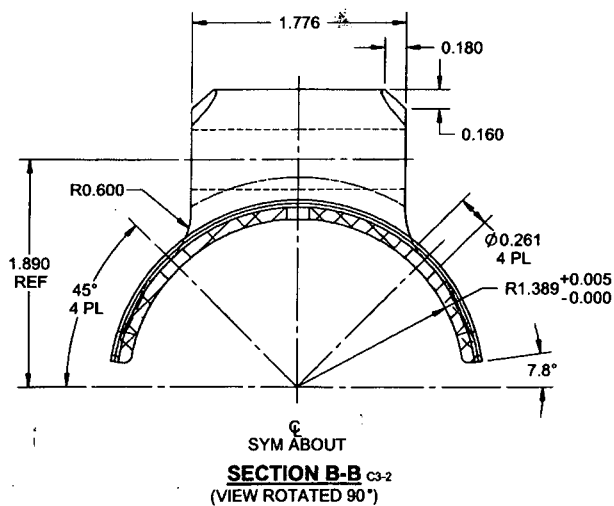
131841 M.L.S.
15-04-22

RELEASED
2011-09-29
JNT

NOTES:

- 1) MATERIAL: 17-4 PH STAINLESS STEEL, H900 OR H925 CONDITION
PER ASTM A564 OR AMS 5643 OR AISI 630
MIN UTS = 170 KSI (38 HRC)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.010 TO 0.020 MAX
- 6) 0.50" WIDE x 1.56" LONG x 0.005" MIN HEIGHT FLAT,
WITH R0.25 RADIUS OF TRANSITION IN THIS AREA
IDENTIFY WITH DART LOGO AND PART NUMBER ON ONE
SIDE AND DART LOGO AND BATCH NUMBER ON OPPOSITE
SIDE USING 0.010-0.020 DEEP LETTERING
- 7) WEIGHT: 0.98 lbs

E	REMOVE PRIMER & UPDATE MAT'L SPEC (ZN A8-1), 2.00 WAS 2.000 (C3-2), 4.00 WAS 4.000 (C6-2), REF. CAR 11-51	CP	11.09.07
D	DRAWING REFORMATTED. POWDER COAT FINISH REMOVED. CHAMFERS ADDED TO TOP OF PART TO CLEAR ROCKER BEAM, PER BELL TECH BULLETIN 407-08-04. B5-2 Ø 0.261 HOLE WAS 0.257. B2-2 REAM FINISH INSTRUCTION ADDED.	AJS	08.11.06
C	ADD MASKING AND PRIME ONLY NOTES, REFORMATTED DRAWING.	DC	07.07.04
B	AS MANUFACTURED	CP	02.07.17
A	NEW ISSUE	CP	02.04.02
REV.	DESCRIPTION	BY	DATE
DESIGN	CP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D2894 Ø2.750 SUPPORT COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. IT IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DRAWN	AS		
CHECKED	AS		
MFG. APPR.	AS		
APPROVED	AS		
DE APPR.	AS	REV. E SHEET 1 OF 2 SCALE NTS	
DATE	11.09.07		



RELEASE
2011-09-29

DESIGN	CP	DART AEROSPACE LTD	
DRAWN	<i>JD</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AS</i>	DRAWING NO.	REV. E
MFG. APPR.	<i>[Signature]</i>	D2894	SHEET 2 OF 7
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	Ø2.750 SUPPORT	NTS
DATE	11.09.07	COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	